# BRUHAT BENGALURU MAHANAGARA PALIKE

No.EE/ELE/EAST/TEND/03/2024-25

Office of the Executive Engineer (Ele),
East Zone, 16th floor, Public Utility Building,
M G Road, Bangalore-01
Dated: 06/11/2024.

# Addendum

**Ref:** 1. Tender notification No: **EE/ELE/EAST/TEND/03/2024-25, Dt: 23/09/2024.**

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1. With reference to this office tender notification cited above, the following modifications/alterations in some clauses of Draft concessionaire agreement (DCA) and RFP are required. Hence, the below mentioned clauses of DCA and RFP shall be read as in the modified clauses. All other conditions remain unchanged.

| Sl. no | Existing Clause | Modified Clause |
|---|---|---|
| | **DCA** | |
| 01 | **3.1 Scope of Work**<br>3.1.1 The Concessionaire shall be solely and exclusively responsible for Implementation of Energy Efficiency Project for street lighting system by replacement of existing conventional streetlights with energy efficient LED streetlights and installing Centralized control & Monitoring system. This will include integration of new LED and existing LED streetlights with CCMS system within an implementation period of 8 months ( extendable by additional 2 Months with Liquidated Damages) along with Operation and Maintenance for a period of 7 years after the project Commercial Operation Date (**including** original or extended implementation period) through PPP for undertaking the following: | **3.1 Scope of Work**<br>3.1.1 The Concessionaire shall be solely and exclusively responsible for Implementation of Energy Efficiency Project for street lighting system by replacement of existing conventional streetlights with energy efficient LED streetlights and installing Centralized control & Monitoring system. This will include integration of new LED and existing LED streetlights with CCMS system within an implementation period of 8 months ( extendable by additional 2 Months with Liquidated Damages) along with Operation and Maintenance for a period of 7 years after the project Commercial Operation Date (**excluding** original or extended implementation period) through PPP for undertaking the following: |
| 02 | **3.8. Grievance Redressal:**<br>Iii c) In addition to the telephone call, the Concessionaire shall refer complaints through Janahitha (MRC); | **3.8. Grievance Redressal:**<br>Iii c) In addition to the telephone call, the Concessionaire shall refer complaints through Sahaaya/ IPGRS |
| 03 | **SCHEDULE-5** KEY PERFORMANCE INDICATORS & REPORTING FORMATS<br>**a. Baseline Assessment:**<br>As per the latest physical GIS survey of streetlights conducted by TIA, there are **20,975** nos of conventional streetlights, **4,818** No's of LED streetlights and **841** nos. of energy meters. The concessionaire will also install 5000 additional new lights. For quantity, type of streetlights/flood lights and other details TABLE-1 shall be referred. | **SCHEDULE -5** KEY PERFORMANCE INDICATORS & REPORTING FORMATS<br>**a. Baseline Assessment:**<br>As per the latest physical GIS survey of streetlights conducted by TIA, there are **67,123** nos of conventional streetlights, **50987** No's of LED streetlights and **7811** nos. of energy meters. The concessionaire will also install **12,328** additional new lights. For quantity, type of streetlights/flood lights and other details TABLE-1 shall be referred. |

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| 04 | **CCMS Specification** mentioned in Schedule 3 (Page no 92)<br>The central CCMS unit is capable of handling minimum **2500** number switching point units. | **CCMS Specification** mentioned in Schedule 3 (Page no 92)<br>The central CCMS unit is capable of handling minimum **8000** number switching point units. |
| | **RFP** | |
| 01 | **APPENDIX – XVII SCOPE OF WORK**<br>The Concessionaire shall be solely and exclusively responsible for implementation of Energy Efficiency in street lighting system by replacement of existing conventional streetlights with energy efficient LED streetlights and installing Centralized control & Monitoring system. This includes integration of new LED and existing LED streetlights with CCMS system within an implementation period of 8 months (extendable by additional 2 Months with liquidated damages) along with operation and maintenance for a period of 7 years (**including** original or extended implementation period) through PPP for undertaking the following: | **APENDIX – XVII SCOPE OF WORK**<br>The Concessionaire shall be solely and exclusively responsible for implementation of Energy Efficiency in street lighting system by replacement of existing conventional streetlights with energy efficient LED streetlights and installing Centralized control & Monitoring system. This includes integration of new LED and existing LED streetlights with CCMS system within an implementation period of 8 months (extendable by additional 2 Months with liquidated damages) along with operation and maintenance for a period of 7 years (**excluding** original or extended implementation period) through PPP for undertaking the following: |
| 02 | **5(a). Operation & Maintenance (O&M) staff:** Zone shall have 20 teams each comprising of 1 electrician, 1 driver and 1 helper accompanied with ladder mounted jeep (to reach at least 10 mtr height) for addressing each block of **10000** lights. | **5(a). Operation & Maintenance (O&M) staff:** Zone shall have 20 teams each comprising of 1 electrician, 1 driver and 1 helper accompanied with ladder mounted jeep (to reach at least 10 mtr height) for addressing each block of **5000** lights. |

**2. In response to the Pre-bid meeting queries the following clauses of RFP and DCA are modified/ changed as below:**

| Sl. No | Existing Clause | Modified Clause |
|---|---|---|
| | **RFP** | |
| 1 | 3.3.3 (a) (2) Evaluation of Eligibility Criteria and Technical Bid<br>**a. Technical Criteria**<br>**Criteria:** Work Experience,<br>**Sub–Criteria:** Installation and operation & maintenance of streetlights within a single Project/ work<br>**Experience:-** Bidder should have satisfactorily completed one similar project/work of "Installation and operation and maintenance of street lights within a single work/project with atleast 65,219 No's of Streetlights with CCMS installed between 01-04-2019 and the last date of bidding for any Corporation or ULB, or with any Government/Semi government/PSU1. | 3.3.3 (a) (2) Evaluation of Eligibility Criteria and Technical Bid<br>**a. Technical Criteria**<br>**Criteria:** Work Experience,<br>**Sub–Criteria:** Installation and operation of streetlights.<br>**Experience:-** Bidder should have satisfactorily completed similar projects/works of "Installation and operation of street lights with atleast **39726 No's** of Streetlights with CCMS installed between 2019 and the last date of bidding for any Corporation or ULB, or with any Government/Semi government/PSU. |
| 2 | **3.3.3 (b)(2)- Evaluation of Eligibility Criteria and Technical Bid**<br>**b. Financial Criteria:Networth**<br>**Requirement:-** Sole Bidder/ Lead member of | **3.3.3 (b)(2)- Evaluation of Eligibility Criteria and Technical Bid**<br>**b. Financial Criteria:Networth**<br>**Requirement:-** Sole Bidder/ Lead member of |

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<tr><td></td><td>Consortium should have a Net Worth of INR 34,96,00,000/- (INR Thirty four crores & ninty six lakhs only) at the close of the preceding financial year.</td><td>Consortium should have a Net Worth of INR 23,50,00,000/- (INR Twenty three corers fifty lakhs only) at the close of the preceding financial year.</td></tr>
<tr><td>4</td><td>APPENDIX - XVII SCOPE OF WORK<br>2. Undertake comprehensive operation and maintenance of street lighting network for contract period (7 years):<br>xiv. During maintenance period, in case any street light is not functioning or defective, the Concessionaire will replace or repair the same within 24 hours of receiving the complaint, except for the reasons beyond the control of the Concessionaire which shall be brought to the notice of Engineer-in-charge. In case the issue is not resolved within 24 hours then a penalty equivalent to Ten (10) times of the monetized value of energy consumption by streetlight for non-burning duration beyond 24 hours shall be levied.<br><br>XXV. All complaints lodged in system have to be resolved within 24 hours of lodging of complaint. For example, if the complaint is lodged on 16thMay at 10 PM then the complaint has to be resolved before 17thMay 10 PM. In certain cases, Concessionaire has to resolve the complaints immediately as per the instruction of Engineer In-Charge.<br><br>D. Key Performance indicators,Table-4, (in both RFP & DCA)
<table>
<tr><th>KPI</th><th>Prescribed Levels</th><th>Penalty Details</th></tr>
<tr><td>Rectificati on of defective /partially glowing / flickering /streetlight</td><td>Less than 24 Hrs of registration/ appeared in CCMS software time</td><td>Concessionaire shall address complaints within 24 hrs. of registration / appeared in CCMS software. If Concessionaire fails to address the complaint, he will be penalized with 10 X monetized value of energy consumption of particular street for non-burning hours beyond 24 hours.</td></tr>
</table></td><td>APPENDIX - XVII SCOPE OF WORK<br>2. Undertake comprehensive operation and maintenance of street lighting network for contract period (7 years):<br>During maintenance period, in case any street light is not functioning or defective, the Concessionaire will replace or repair the same within 48 hours of receiving the complaint, except for the reasons beyond the control of the Concessionaire which shall be brought to the notice of Engineer-in-charge. In case the issue is not resolved within 48 hours then a penalty equivalent to Ten (10) times of the monetized value of energy consumption by streetlight for non-burning duration beyond 48 hours shall be levied.<br><br>XXV. All complaints lodged in system have to be resolved within 48 hours of lodging of complaint. For example, if the complaint is lodged on 16thMay at 10 PM then the complaint has to be resolved before 18thMay 10 PM. In certain cases, Concessionaire has to resolve the complaints immediately as per the instruction of Engineer In-Charge.<br><br>D. Key Performance indicators,Table-4, (in both RFP & DCA)
<table>
<tr><th>KPI</th><th>Prescribed Levels</th><th>Penalty Details</th></tr>
<tr><td>Rectificati on of defective /partially glowing / flickering /streetlight</td><td>Less than 48 Hrs of registration/ appeared in CCMS software time</td><td>Concessionaire shall address complaints within 48 hrs. of registration / appeared in CCMS software. If Concessionaire fails to address the complaint, he will be penalized with 10 X monetized value of energy consumption of particular street for non-burning hours beyond 48 hours.</td></tr>
</table></td></tr>
<tr><td>5</td><td>APPENDIX - XVII SCOPE OF WORK<br>12 PERFORMANCE PARAMETERS<br>D. Key Performance Indicators,<br>Table 4, (in both RFP & DCA),<br>Uptime of the installations should be 99% at</td><td>APPENDIX - XVII SCOPE OF WORK<br>12 PERFORMANCE PARAMETERS<br>D. Key Performance Indicators,<br>Table-4, (in both RFP & DCA)<br>Uptime of the installations should be 98% at</td></tr>
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|---|---|---|
| | any given point of time. (Conversely Downtime of installations should be maximum 1%)<br>• Failure to maintain uptime of minimum 99% of all LED lamps in the project area will attract a fine of 0.1 % of EMI payable for the month, for each such day/days witnessed/documented in CCMS. | any given point of time. (Conversely Downtime of installations should be maximum 2%).<br>• Failure to maintain uptime of minimum 98% of all LED lamps in the project area will attract a fine of 0.1 % of EMI payable for the month, for each such day/days witnessed/documented in CCMS. |
| | **DCA** | |
| 3 | **SCHEDULE – 3 TECHINICAL SPECIFICATIONS**<br>**2. Technical specification of LED streetlight, flood lights fixtures:**<br>16. LEDs shall be operated at a forward current < 70% of rated maximum forward current, in the range of 350 mA to 1000 mA | LEDs shall be operated at a forward current < 70% of rated maximum forward current, in the range of 350 mA to 1000 mA.<br>**or**<br>The operating power of LED <70% of the maximum rated power. |
| 4 | **SCHEDULE – 3 TECHNICAL SPECIFICATIONS**<br>**2. Technical specification of LED streetlight, flood lights fixtures:**<br>**03. Average rated life span of LEDs used in the luminaries:** More than 50,000 hrs., case temperature of 105°C with respect to lumen maintenance of 70%. | **SCHEDULE – 3 TECHNICAL SPECIFICATIONS**<br>**2. Technical specification of LED streetlight, flood lights fixtures:**<br>**Average rated life span of LEDs used in the luminaries and their depreciation:** More than 50,000 hrs., case temperature of 105°C with respect to lumen maintenance of 70%. The lumen depreciation of streetlight should not be more than 3% per year and should not be more than 21% in 7 years from the Lumen recorded in the LM79 test certificate. |
| 6 | **SCHEDULE – 3 TECHNICAL SPECIFICATIONS**<br>**2. Technical specification of LED streetlight, flood lights fixtures:**<br>**17.Surge suppresser:** Internal voltage surge protection: Universal electronic driver with internal surge protection **of 6KV** (Applicability IS 15885, driver safety 16104-1/2)External voltage surge protection: External surge protection device (SPD) with a minimum immunity level of 20KV / 10 kA (Uoc/Isc) shall be separately installed with each fixture in line with IEC 61643-11 as amended up to date. | **SCHEDULE – 3 TECHNICAL SPECIFICATIONS**<br>**2. Technical specification of LED streetlight, flood lights fixtures:**<br>**Surge suppresser:** Internal voltage surge protection: Universal electronic driver with internal surge protection **of 4KV** (Applicability IS 15885, driver safety 16104-1/2)External voltage surge protection: External surge protection device (SPD) with a minimum immunity level of 20KV / 10 kA (Uoc/Isc) shall be separately installed with each fixture in line with IEC 61643-11 as amended up to date. |

**Executive Engineer (Ele),**
**East Zone,**
**Bruhat Bengaluru Mahanagara Palike.**

**Copies submitted to:**

1. Chief commissioner, BBMP, for kind information.
2. Special commissioner(Project), BBMP, for kind information.
3. Zonal Commissioner (East Zone) for kind information.
4. Joint Commissioner (East Zone) for kind information.
5. Engineer in chief (EIC) for kind information.
6. CE (East Zone) for kind information.
7. Superintending Engineer (Ele), BBMP, for kind information.
8. Office copy.